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## TRANSMITTAL FORM

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Total Number of Pages in This Submission

Application Number 10/782,076

Filing Date 02/19/2004

First Named Inventor Chun-Cheng Lin et al.

Art Unit 1616

Examiner Name

Attorney Docket Number SINICA-08757

### ENCLOSURES (Check all that apply)

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| <input checked="" type="checkbox"/> Fee Transmittal Form                  | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance Communication to TC                            |
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#### Remarks

This Information Disclosure Statement is being filed before the issuance of a first Office Action, therefore, Applicants believe no fee is required. The Commissioner is hereby authorized to charge any deficiency in the payment of the required fees, and/or credit any overpayment, to Deposit Account No. 08-1290.

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name MEDLEN & CARROLL, LLP

Signature *J - Bond*

Printed name Jason R. Bond

Date September 28, 2006

Reg. No. 45,439

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**PATENT**  
Attorney Docket No. SINICA-08757

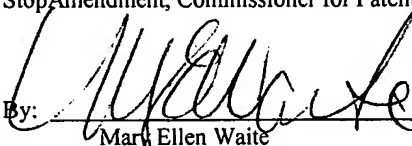
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Chun-Cheng Lin, *et al.*  
Serial No.: 10/782,076  
Filed: 02/19/2004  
Entitled: Carbohydrate Encapsulated Nanoparticles

Group No.: 1616  
Examiner:

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
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<p align="center"><b>CERTIFICATE OF MAILING UNDER 37 CFR § 1.8(a)(1)(i)(A)</b></p> <p>I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p> <p>Date: <u>September 28, 2006</u></p> <p>By:  Mark Ellen Waite</p>
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Sir or Madam:

The citations listed below may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

- U.S. Patent No. 6,369,206
- U.S. Patent No. 6,465,435
- U.S. Patent No. 6,231,733
- Lanza et al., "In vivo molecular imaging of stretch-induced tissue factor in carotid arteries with ligand-targeted nanoparticles," J. Am. Soc. Echocardiogr., June; 13(6):608-14, 2000
- Hall et al., "Time evolution of enhanced ultrasonic reflection using a fibrin-targeted nanoparticulate contrast agent," J. Acoust. Soc. Am., Dec, 108(6):3049-57, 2000

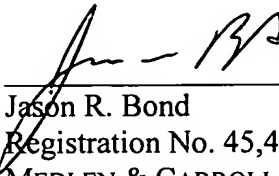
- Kitov et al., "Shiga-like toxins are neutralized by tailored multivalent carbohydrate ligands," *Nature*, 403:669-672, 2000
- Sato, T., Ruth, R. *Stabilization of Colloidal Dispersions by Polymer Adsorptions; Surfactants Science Series, No.9*; Marcel Dekker: New York, 1980, pp 65-119
- A. Ulman, "Formation and Structure of Self-Assembled Monolayers," *Chem. Rev.*, 96:1533-1554 [1996]
- de la Fuente et al., "Gold Glyconanoparticles as Water-Soluble Polyvalent Models To Study Carbohydrate Interactions," *Angew. Chem. Int.*, 2001, 40(12):2258-61
- Otsuka et al., "Quantitative and reversible lectin-induced association of gold nanoparticles modified with alpha-lactosyl-omega-mercapto-poly(ethylene glycol)," *J. Am. Chem. Soc.*, 2001, 123:8226-30
- Brust et al., "Synthesis of Thiol-derivatised Gold Nanoparticles in a Two-phase Liquid-Liquid System," *J. Chem. Soc. Chem. Commun.*, 1994, 801-802
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- Stahl et al., "Beta 2-agonists administered by a dry powder inhaler can be used in acute asthma," *Respir Med.* 1998 Feb;92(2):167-72
- Lin et al., "Selective Binding of Mannose-Encapsulated Gold Nanoparticles to Type 1 Pili in *Escherichia coli*," *JACS*, 123:3805-3509 (2002)
- Kartha et al., "A Simplified, One-Pot Preparation of Acetobromosugars From Reducing Sugars," *J. Carbohydrate Chemistry*, 9(5)777:781 (1990)
- Keating et al., "Protein: Colloid Conjugates for Surface Enhanced Raman Scattering: Stability and Control of Protein Orientation," *J Phys. Chem.* 102:9404-9413 (1998)
- Buskas et al., "Use of n-pentenyl glycosides as precursors to various spacer functionalities," *J Org Chem.* 2000 Feb 25;65(4):958-63
- Neimeyer, "Nanoparticles, Proteins, and Nucleic Acids: Biotechnology Meets Materials Science," *Angew. Chem. Int. Ed*, 40:4128-4158 (2001)

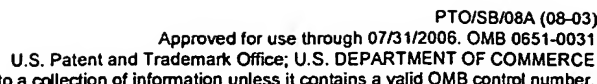
- Mann et al., "Probing Low Affinity and Multivalent Interactions with Surface Plasman Resonance: Ligands for Concanavalin A," JACS 120(41)10575-10582 (1998)
- Gestwicki et al., "Inter-receptor communication through arrays of bacterial chemoreceptors," Letter to Nature, 415:81-84 (2002)
- Liang et al., "Measuring the forces involved in polyvalent adhesion of uropathogenic Escherichia coli to mannose-presenting surfaces," PNAS U S A. 2000 Nov 21;97(24):13092-6
- Kingery-Wood et al., "The Agglutination of Erythrocytes by Influenza Virus is Strongly Inhibited by Liposomes Incorporating an Analog of Sialyl Gangliosides," JACS 114:7303-7305 (1992)
- Lee et al., "A facile synthesis of 2-O-(alpha-D-mannopyranosyl)-alpha-D-mannopyranosides," Carbohydr Res. 1995 Jul 10;271(1):131-6
- Bruchez et al., "Semiconductor nanocrystals as fluorescent biological labels," Science. 1998 Sep 25;281(5385):2013-6
- Chan et al., "Quantum dot bioconjugates for ultrasensitive nonisotopic detection," Science. 1998 Sep 25;281(5385):2016-8
- Lin et al., "Quantitative analysis of multivalent interactions of carbohydrate-encapsulated gold nano paraticles with concanavalin A," Chem Commun (Camb). 2003 Dec 7;(23):2920-1

Applicants wish to bring to the examiners attention that we are not providing copies of US Patents as instructed under 37 CFR 1.98(a)(2).

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: September 28, 2006

  
\_\_\_\_\_  
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608/218-6900



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Substitute for form 1449/PTO

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Sheet	1	of	4
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Application Number	10/782,076
Filing Date	02/19/2004
First Named Inventor	Chun-Cheng Lin et al
Art Unit	1616
Examiner Name	
Attorney Docket Number	SINICA-08757

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

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		Application Number	10/782,076
		Filing Date	02/19/2004
		First Named Inventor	Chun-Cheng Lin et al
		Art Unit	1616
Examiner Name			
Attorney Docket Number	SINICA-08757		
Sheet	2	of	4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	4	Lanza et al., "In vivo molecular imaging of stretch-induced tissue factor in carotid arteries with ligand-targeted nanoparticles," J. Am. Soc. Echocardiogr., June; 13(6):608-14, 2000	
	5	Hall et al., "Time evolution of enhanced ultrasonic reflection using a fibrin-targeted nanoparticulate contrast agent," J. Acoust. Soc. Am., Dec, 108(6):3049-57, 2000	
	6	Kitov et al., "Shiga-like toxins are neutralized by tailored multivalent carbohydrate ligands," Nature, 403:669-672, 2000	
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	16	Keating et al., "Protein: Colloid Conjugates for Surface Enhanced Raman Scattering: Stability and Control of Protein Orientation," J Phys. Chem. 102:9404-9413 (1998)	
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